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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/600,302	06/20/2003	Matthew David Irving	2003L003	7665	
Infineum USA	7590 04/05/2007		EXAM	INER	
Law Department			RABAGO, ROBERTO		
1900 East Linden Avenue P. O. Box 710			ART UNIT	PAPER NUMBER	
Linden, NJ 070			1713		
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SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MONTHS		04/05/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/600,302	IRVING ET AL.				
Office Action Summary	Examiner	Art Unit				
,	Roberto Rábago	1713				
The MAILING DATE of this communication a Period for Reply	, -	I -	s			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the maile earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re od will apply and will expire SIX (6) MONT tute, cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this commun. NDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>29</u>	January 2006					
	nis action is non-final.					
3)☐ Since this application is in condition for allow		rs, prosecution as to the mer	rits is			
closed in accordance with the practice unde	•					
Disposition of Claims	•					
4)⊠ Claim(s) <u>1-17</u> is/are pending in the application	nn ·					
4a) Of the above claim(s) <u>10,11 and 14-17</u> is		ation				
5) Claim(s) is/are allowed.	are withardwir hom concider	attorn.				
6)⊠ Claim(s) <u>1-9,12 and 13</u> is/are rejected.		·				
7) ☐ Claim(s) is/are objected to.						
·						
Application Papers	·					
9)☐ The specification is objected to by the Exami	nor					
		v the Evaminer				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the corre			121(d)			
11) The oath or declaration is objected to by the						
Priority under 35 U.S.C. § 119	Examinor. Note the attached		<i>3</i> 2.			
<u> </u>	an nainaiht undar 25 I I C C C	140(-) (-) (5)				
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of:	gn priority under 35 U.S.C. §	119(a)-(a) or (t).				
	nto have been received					
		ulication No				
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a li	, , , , , , , , , , , , , , , , , , , ,					
occ the attached detailed Office action for a n	st of the certified copies flot i	sceived.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Su					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		/Mail Date ormal Patent Application				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/17/06.	6) Other:	7.7				
J.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Office	Action Summary	Part of Paper No./Mail Date 20	070326			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/29/2007 has been entered.
- 2. Prior rejection over Cengel et al. is withdrawn in view of the declaration of Jacob Emert, filed 1/29/2007. The declaration indicates that the polymers described in the reference would not be expected to include the required amount of terminal vinylidene content.

Information Disclosure Statement

3. The information disclosure statement filed 11/17/2006 fails to comply with 37 CFR 1.98(a)(3) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent listed that is not in the English language. It has been placed in the application file, but references AM and BN have not been considered.

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Claim Rejections - 35 USC § 112

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4. Claims 1-9, 12 and 13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

(a) Claims 1, 12 and 13 (and claims 2-9 as dependent thereon) include the phrase "in the substantial absence of halogen." This phrase was previously assumed to require that while halogens may be present in incidental trace quantities in the process, no halogen or halogenated compounds may be added as process components. However, further review of the specification reveals that halogenated compounds are recommended for both the free radical inhibitor and the sulfonic acid at pages 7-8. Accordingly, the intended scope of "in the substantial absence of halogen" cannot be determined.

Claim Rejections - 35 USC § 102/103

5. Claims 1-9 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over EP 744393.

The reference discloses in Example 1 the reaction of polyisobutene, maleic anhydride and a reagent which would function as a free radical inhibitor (including phenothiazine and other examples), including all claimed limitations except for a reporting of the terminal vinylidene content and the functionality. However, the claimed terminal vinylidene content would appear to be inherent because the reference has stated that highly reactive PIB has been used, and would therefore be expected to

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exceed the required level of 50%. In the alternative, one of ordinary skill in the art would be motivated to use PIB of the claimed vinylidene content because the reference recommends the use of highly reactive PIB. The claimed functionality would appear to be inherent because applicants have claimed essentially all (claim 8) or a substantial portion of (claim 9) the range of conventional functionalities; in the alternative, one of ordinary skill in the art would be motivated to use analogous conventional reactive PIB within the claimed range in methods analogous to those of the reference examples because applicants have claimed broad ranges of conventional values. The burden of proof is shifted to applicants to show that the reference examples do not include the claimed unreported properties.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberto Rábago whose telephone number is (571) 272-1109. The examiner can normally be reached on Monday - Friday from 8:00 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Roberto Rábago **Primary Examiner** Art Unit 1713

March 27, 2007 RR